EXISTING SIGNS

U.S. 40 IS ASSUMED TO RUN IN A EAST-WEST DIRECTION

27 — R3-5L (30"X36")
25,28 — R3-6L (30"X36")
23,24,26,29 — R3-5R (30"X36")

30a,30b,31a,31b — N. Chatham Rd. — D-3(1) (DUAL FACED) (VARIES X16")

32 — M1-5(6) (24"X48")
33 — M1-5(6) (24"X48")
34 — M1-5(6) (36"X72")
35 — M1-5(6) (36"X72")

EXISTING VIDEO DETECTION

LED SIGNALS

15-18 — 16"

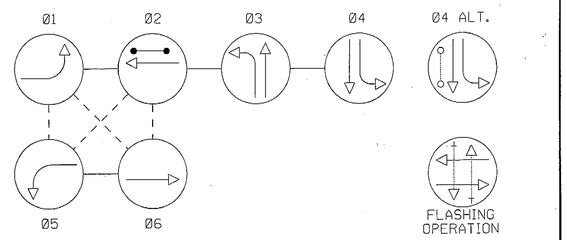
EXISTING SIGNALS

1,2, 5,6 — 12"
3,4,7,8, 11,14 — 12"
9,10, 12,13 — 12"

ACCESSIBLE PUSHBUTTON AND SIGN

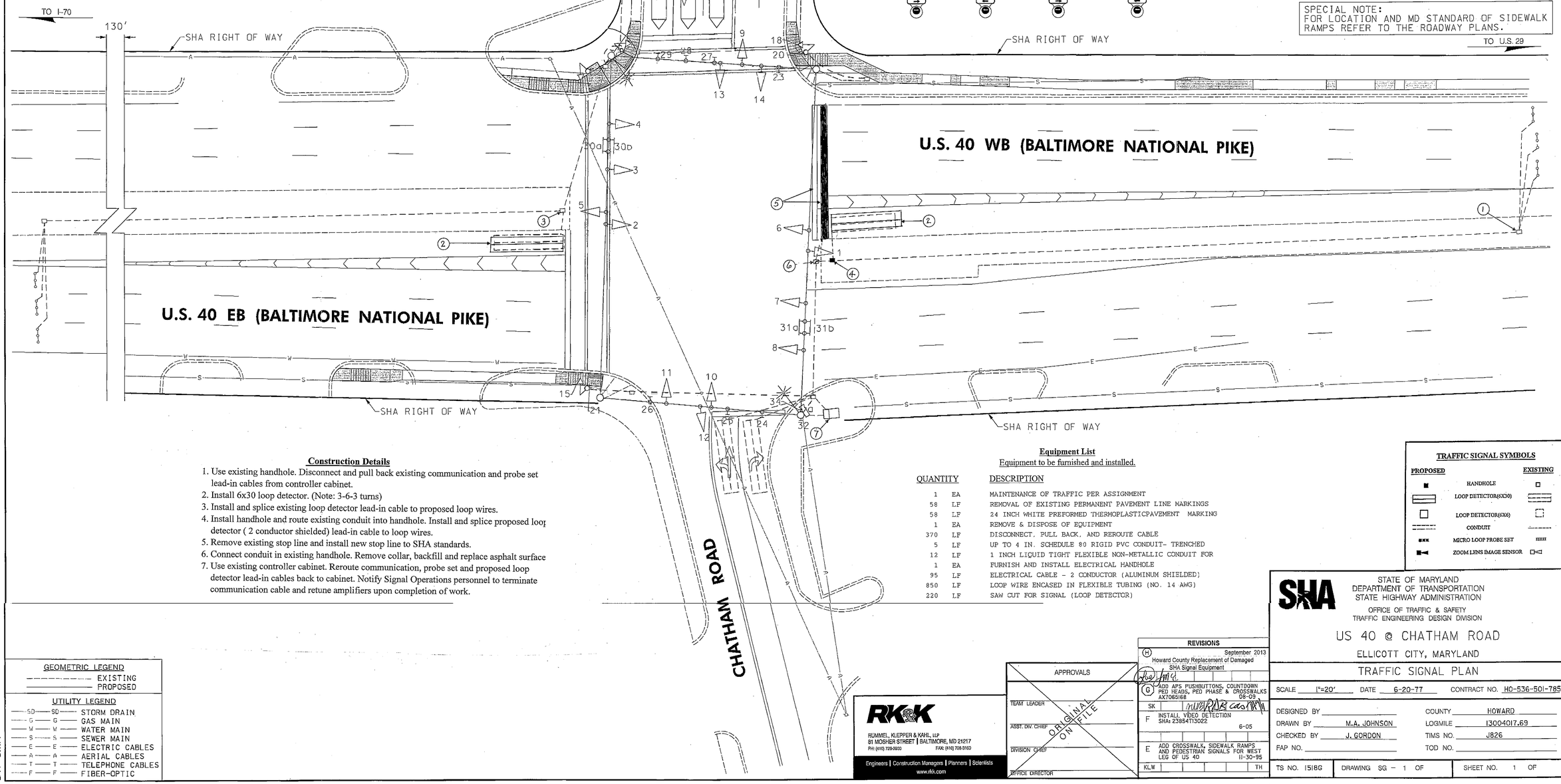
19, 20, 21, 22

NEMA PHASING



NOTE:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

SPECIAL NOTE:
FOR LOCATION AND MD STANDARD OF SIDEWALK RAMPS REFER TO THE ROADWAY PLANS.



Construction Details

1. Use existing handhole. Disconnect and pull back existing communication and probe set lead-in cables from controller cabinet.
2. Install 6x30 loop detector. (Note: 3-6-3 turns)
3. Install and splice existing loop detector lead-in cable to proposed loop wires.
4. Install handhole and route existing conduit into handhole. Install and splice proposed loop detector (2 conductor shielded) lead-in cable to loop wires.
5. Remove existing stop line and install new stop line to SHA standards.
6. Connect conduit in existing handhole. Remove collar, backfill and replace asphalt surface
7. Use existing controller cabinet. Reroute communication, probe set and proposed loop detector lead-in cables back to cabinet. Notify Signal Operations personnel to terminate communication cable and retune amplifiers upon completion of work.

Equipment List

Equipment to be furnished and installed.

QUANTITY		DESCRIPTION
1	EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
58	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
58	LF	24 INCH WHITE PREFORMED THERMOPLASTICPAVEMENT MARKING
1	EA	REMOVE & DISPOSE OF EQUIPMENT
370	LF	DISCONNECT, PULL BACK, AND REROUTE CABLE
5	LF	UP TO 4 IN. SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
12	LF	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR
1	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
95	LF	ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
850	LF	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
220	LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)

TRAFFIC SIGNAL SYMBOLS

PROPOSED		EXISTING
■	HANDHOLE	□
▭	LOOP DETECTOR(6X30)	▭
□	LOOP DETECTOR(6X6)	⬚
----	CONDUIT	----
■■■	MICRO LOOP PROBE SET	▪▪▪▪
■◄	ZOOM LENS IMAGE SENSOR	□◄

GEOMETRIC LEGEND

EXISTING
PROPOSED

UTILITY LEGEND

SD — STORM DRAIN
G — GAS MAIN
W — WATER MAIN
S — SEWER MAIN
E — ELECTRIC CABLES
A — AERIAL CABLES
T — TELEPHONE CABLES
F — FIBER-OPTIC

BY: SMK

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APPROVALS

TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR

ORIGINAL ON FILE

REVISIONS

H	September 2013 Howard County Replacement of Damaged SHA Signal Equipment		
G	ADD APS PUSHBUTTONS, COUNTDOWN PED HEADS, PED PHASE & CROSSWALKS AX7065168	08-09	
SK			
F	INSTALL VIDEO DETECTION SHA: 23954T13022	6-05	
E	ADD CROSSWALK, SIDEWALK RAMPS AND PEDESTRIAN SIGNALS FOR WEST LEG OF US 40	11-30-95	TH
KLW			

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

US 40 @ CHATHAM ROAD

ELLICOTT CITY, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"=20' DATE 6-20-77 CONTRACT NO. HO-536-501-785

DESIGNED BY
DRAWN BY M.A. JOHNSON
CHECKED BY J. GORDON
FAP NO.

COUNTY HOWARD
LOGMILE 13004017.69
TIMS NO. J826
TOD NO.

TS NO. 1518G | DRAWING SG - 1 OF | SHEET NO. 1 OF